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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/016,437	12/10/2001	Nader Dutta	594-25576-US	5333
²⁸¹¹⁶ WesternGeco L	7590 04/16/200 .L.C.	EXAMINER		
Jeffrey E. Griffi 10001 Richmon		JONES, HUGH M		
HOUSTON, TX			ART UNIT	PAPER NUMBER
			2128	
			NOTIFICATION DATE	DELIVERY MODE
			04/16/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

lgoldsmith@slb.com aperalta2@slb.com rsmith31@slb.com

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	
10/016,437	DUTTA ET AL.	
Examiner	Art Unit	

	Hugh Jones	2128	
The MAILING DATE of this communication appe	ars on the cover sheet with the c	orrespondence add	ress
THE REPLY FILED <u>02 April 2009</u> FAILS TO PLACE THIS APPI	LICATION IN CONDITION FOR AL	LOWANCE.	
1. The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following rapplication in condition for allowance; (2) a Notice of Appe for Continued Examination (RCE) in compliance with 37 C periods:	eplies: (1) an amendment, affidavit al (with appeal fee) in compliance	, or other evidence, w with 37 CFR 41.31; or	hich places the (3) a Request
a) The period for reply expires months from the mailing	date of the final rejection.		
b) The period for reply expires on: (1) the mailing date of this Adno event, however, will the statutory period for reply expire la Examiner Note: If box 1 is checked, check either box (a) or (I	dvisory Action, or (2) the date set forth ter than SIX MONTHS from the mailing	date of the final rejection	n.
MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f Extensions of time may be obtained under 37 CFR 1.136(a). The date of the period of the perio	on which the petition under 37 CFR 1.13		
have been filed is the date for purposes of determining the period of extender 37 CFR 1.17(a) is calculated from: (1) the expiration date of the siset forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b).	hortened statutory period for reply original	nally set in the final Offic	e action; or (2) as
NOTICE OF APPEAL	ion on with 27 CED 44 27 must be 4	ilad within two manth	f thd-tf
 The Notice of Appeal was filed on A brief in compl filing the Notice of Appeal (37 CFR 41.37(a)), or any exten Notice of Appeal has been filed, any reply must be filed wi 	sion thereof (37 CFR 41.37(e)), to	avoid dismissal of the	
<u>AMENDMENTS</u>			
3. The proposed amendment(s) filed after a final rejection, be (a) They raise new issues that would require further con	sideration and/or search (see NOT		cause
 (b) ☐ They raise the issue of new matter (see NOTE belown) (c) ☐ They are not deemed to place the application in bett appeal; and/or 	•	lucing or simplifying t	ne issues for
(d) ☐ They present additional claims without canceling a c NOTE: (See 37 CFR 1.116 and 41.33(a)).	orresponding number of finally reje	cted claims.	
4. The amendments are not in compliance with 37 CFR 1.12	1. See attached Notice of Non-Co	mnliant Amendment (PTOL-324)
5. Applicant's reply has overcome the following rejection(s):		Inpliant Amendment (1 1 OL-324).
 Newly proposed or amended claim(s) would be all non-allowable claim(s). 		imely filed amendmer	nt canceling the
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is prove The status of the claim(s) is (or will be) as follows: Claim(s) allowed: Claim(s) about details.		be entered and an e	xplanation of
Claim(s) objected to: Claim(s) rejected: <u>1-8, 12-15, 17-27, 29-32</u> .			
Claim(s) withdrawn from consideration: AFFIDAVIT OR OTHER EVIDENCE			
 The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e). 			
9. The affidavit or other evidence filed after the date of filing a entered because the affidavit or other evidence failed to or showing a good and sufficient reasons why it is necessary	vercome <u>all</u> rejections under appea	l and/or appellant fail	s to provide a
 The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER 	n of the status of the claims after er	itry is below or attach	ed.
 The request for reconsideration has been considered but <u>See Continuation Sheet.</u> 	does NOT place the application in	condition for allowan	ce because:
12. ☐ Note the attached Information <i>Disclosure Statement</i>(s). (13. ☐ Other:	PTO/SB/08) Paper No(s)		
	/Hugh Jones/		
	Primary Examiner, Art U	nit 2128	

Continuation of 11. does NOT place the application in condition for allowance because: The arguments regarding the art rejections are not persuasive.

Page 230: The elastic earth models (consisting of P-wave velocity, density, and Poisson's ratio) obtained at each location of the prospect where prestack GAinversion was run can be used as background low-frequency impedance trends for poststack inversion and can create a hybrid inversion scheme. Two such hybrid schemes are fully described by Mallick et al. (1999) and summarized below.

Mallick then discloses (pp. 230-231):... compute P- and S-wave impedances from prestack data and use standard AVO processing to generate AVO intercept and AVO gradient volumes. Next, we assume a background P- to S-wave velocity ratio, and combine the AVO intercept and gradient volumes to generate a pseudo S-wave volume. A derivation for computing pseudo S-wave data from the AVO intercept and gradient is presented in Appendix A. Finally, we run poststack inversions on AVO intercept and pseudo S-wave volumes, using P- and S-wave impedance values from prestack inversion at discrete locations as background impedance trends. Once P- and S-wave impedances from these poststack inversions are obtained, we can compute Poisson's ratio according to Appendix B.

Note from above "Next, we assume a background P- to S-wave velocity ratio, and combine the AVO intercept and gradient volumes to generate a pseudo S-wave volume". The s wave data is derived from the P data via the assumed ratio. Thus, the section cited in the rejection is only directed to P wave data.

also note: "A derivation for computing pseudo S-wave data from the AVO intercept and gradient is presented in Appendix A".

Finally, see section "A".

The argument regarding a lack of teaching of any stratigraphic analysis is not persuasive. The whole paper is directed to stratigraphic analysis.

Applicants are thanked for the amendment.